Claims

5

10

- 1. A solid unit dosage form comprising citalopram, characterised in that it is prepared by direct compression of a mixture of citalopram base or a pharmaceutically acceptable salt and pharmaceutically acceptable excipients, or by filling of said mixture in a hard gelatine capsule.
 - 2. The solid unit dosage form according to claim 1, characterised in that it is a tablet prepared by direct compression of a mixture of citalogram base or a pharmaceutically acceptable salt thereof and pharmaceutically acceptable excipients.
 - 3. The solid unit dosage form according to claim 1, characterised in that it is prepared by filling a mixture of citalogram base or a pharmaceutically acceptable salt thereof and pharmaceutically acceptable excipients in a hard gelatine capsule.
 - 4. The solid unit dosage form according to claims 1-3, characterised in that it does not contain a binder.
- 5. The solid unit dosage form according to claims 1-4; characterised in that it contains 2-60% w/w active ingredient calculated as citalopram base, preferably 10-40% w/w active ingredient calculated as citalopram base and more preferred 15-25% w/w active ingredient calculated as citalopram base.
- 6. The solid unit dosage form according to claims 1-5, characterised in that it contains a filler selected from lactose, sugars, preferably sorbitol, mannitol, dextrose, and/or sucrose, calcium phosphates, preferably dibasic, tribasic, hydrous and/or anhydrous, starch, modified starches, microcrystalline cellulose, calcium sulfate, and/or calcium carbonate.
- 7. The solid unit dosage form according to claim 6, characterised in that the filler is a microcrystalline cellulose, such as ProSolv SMCC90 or Avicel PH 200.

10

15

- 8. The solid unit dosage form according to claims 1-7, characterised in that it contains a lubricant selected from metallic stearates (magnesium, calcium, sodium), stearic acid, wax, hydrogenated vegetable oil, talc and colloidal silica.
- 5 9. The solid unit docage form according to claim 8, characterised in that the lubricant is magnesium stearate or calcium stearate.
 - 10. The solid unit dosage form according to claims 1-9, characterised in that it is substantially free of lactose.
 - 11. The solid unit dosage form according to claim 1-10; characterised in that the active ingredient is citalogram base.
 - 12. The solid unit dosage form according to claims 1-10, characterised in that the active ingredient is citalogram hydrobromide or citalogram hydrochloride.
 - 13. The solid unit dosage form according to claim 12, characterised in that the active ingredient is citalogram hydrobromide.
 - 14. The solid unit dosage form according to olaims 12-13, characterised in that the active ingredient is in the form of crystals with a median particle size below 20 µm.
- 15. The solid unit dosage form according to claims 12 13; characterised in that the active ingredient is in the form of crystals with a median particle size of at least 40 μ m, preferably in the range of 40 200 μ m, even more preferred 45 150 μ m and most preferred 50 100 μ m.
- 16. Crystals of a pharmaceutically acceptable salt of citalopram suitable for use in
 30 a solid unit dosage form according to claim 15, characterised in that the median particle size of the crystals is at least 40 μm.

5

- 17. Crystals according to claim 16, characterised in that the crystals are of citalogram hydrobromide or citalogram hydrochloride.
- 18. Crystals according to claim 17, characterised in that the crystals are of citalopram hydrobromide.
- 19. Crystals according to claims 16-18; characterised in that the median particle size of the crystals is in the range of 40 200 μ m, preferably 45-150 μ m and even more preferred 50-120 μ m.
- 20. Method for manufacture of crystals of a pharmaceutically acceptable salt of citalopram having a median particle size of at least 40 µm and suitable for use in a solid unit dosage form according to claim 15, characterised in that a solution of a pharmaceutically acceptable salt of citalopram in a suitable solvent system at a first temperature is first cooled down to a second temperature then seeded by addition of crystals of said citalopram salt followed by a holding time at said second temperature and a controlled cooling down to a third temperature whereupon said crystals are isolated by conventional solid/liquid separation techniques.
- 21. The method according to claim 20, characterised in that the median particle size of the crystals is in the range of 40 200 μ m, preferably 45 150 μ m and even more preferred 50 120 μ m.
- 22. The method according to claims 20-21, characterised in that the dissolved substance is citalogram hydrobromide or citalogram hydrochloride.
- 23. The method according to claim 22, characterised in that the dissolved substance is citalogram hydrobromide.
- 30 24. The method according to claims 20-23, characterised in that the solvent system comprises one or more alcohols and optionally water.

30

10

- The method according to claim 24, characterised in that the solvent system is 25. a mixture of methanol and water.
- The method according to claim 25, characterised in that the methanol:water 26. weight ratio is in the range of 5:1 to 50:1; preferably 10:1 to 30:1 and more preferred 5 15:1 to 25:1.
 - The method according to claims 20-26; characterised in that the 27. solvent:solute weight ratio is in the range of 0.5:1 to 5:1, preferably 0.7:1 to 2:1 and more preferred 0.9:1 to 1.5:1.
 - The method according to plaims 20-27, characterised in that said first 28. temperature is in the range between 30 °C and the refluxing temperature of the solvent system, preferably between 60 °C and the refluxing temperature and more preferred between 64 °C and the refluxing temperature.
 - The method according to claims 20-28; characterised in that said second 29. temperature is in the range of 20-40 °C, preferably 25-35 °C.
 - The method according to olaim 20-29, characterised in that said holding time 30. is in the range of 30 minutes to 7 days, preferably 1 hour to 4 days and more preferred 12 to 36 hours.
 - The method according to claim 20-30; characterised in that said third 31. temperature is in the range of 0-20 °C, preferably 5-15°.
 - The method according to claim 20-31 characterised in that said controlled 32. cooling down is a gradual cooling down over a time span in the range of 5 minutes to 6 hours, preferably 15 minutes to 4 hours and more preferred 30 minutes to 2 hours.
 - The method according to claim 20-32, characterised in that said isolation of 33. the crystals of a pharmaceutically acceptable salt of citalopram from the mother liquor is performed by filtration.